

Registration certificate

Environmental Protection Act 1994

Registration certificate

No: ENRE00630507

This registration certificate is issued by the administering authority and takes effect from: 27-SEP-2011.

The anniversary day for the purposes of the Annual Return remains: 12 February.

This registration certificate is a requirement of section 73F of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activity listed below at the following places; subject to the conditions set out in a development approval attached to the premises, or the relevant code of environmental compliance.

Registered Operator:-

Wujal Wujal Community Council
Via Cooktown
COOKTOWN QLD 4871

Development Approval Number: ENCD00198005

Place:-

Lot 10 Plan RP903517, Lot 4 Plan SR836

Located at:-

WUJAL WUJAL QLD 4871

Registered Activity: -

ERA 63 Sewage treatment Threshold 2(b) - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 to 1500EP (ii) otherwise (Note: not to an infiltration trench or through an irrigation scheme)

Development Approval Number: ENCD00197705

Place:-

Lot 3 Plan SR224323

Located at:-

Wujal Wujal Aboriginal Community, COOKTOWN QLD 4871

Registered Activity: -

ERA 63 Sewage treatment Threshold 2(b) - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of more than 100 to 1500EP (ii) otherwise (Note: not to an infiltration trench or through an irrigation scheme)

C. C. Birt

Cathy Birt
Delegate
Department of Environment and Resource Management
Environmental Protection Act 1994

27-SEP-2011

Development Application Decision Notice

Sections 3.5.11 & 3.5.15

C O P Y

Application No: FN0045DA

Applicant Name: Wujal Wujal Aboriginal Council

Applicant Address: Wujal Wujal
via Cooktown Qld 4871

Date Received by EPA: 1 December 2000

Jurisdiction: Environmental Protection Act 1994
Environmentally Relevant Activity - 15(b)

Role: Assessment Manager

Property Description: Wujal Wujal Sewage Treatment Plant - Reticulation System
Pump Station and Effluent Irrigation Area
Lot 4, Plan SR836 & Lot 10, RP903517
Parish of Clerk, County of Solander
Located at:
Wujal Wujal Aboriginal Community
via COOKTOWN QLD 4871

Approval Type: Development Approval

Decision Date: 22 January 2001

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22 DEC 2000

Reg Mail No:

RL19406757

1. Type of Development

- ☒ the start of a new use of the premises; or
- ☐ the re-establishment on the premises of a use that has been abandoned; or
- ☐ a material change in the intensity or scale of the use of the premises; or
- ☐ the holder of an environmental authority, or development approval, for an environmentally relevant activity proposes to carry out works for the construction or alteration of premises, or for the installation or alteration of plant or equipment in premises, for carrying out the activity; and the construction, alteration or installation will result in an increase of 10% or more in the release of contaminant into the environment under the authority or approval.

2. Type of ERA(s)

The development application relates to the following ERA(s):

- ERA 15 (b) Sewage treatment - 100 equivalent persons or more but <1,500

3. Decision on Development Application

In deciding the development application, the Environmental Protection Agency, as assessment manager:

- ☐ approves all or part of the application and include in the approval any concurrence agency conditions.
- ☒ approves all or part of the application subject to conditions decided by the assessment manager and include in the approval any concurrence agency conditions.
- ☐ refuses the application.

4. Conditions

The following conditions are applied to the development approval:

Concurrence Agency Conditions:

- (a) None as no concurrence agencies.

Assessment Manager Conditions:

The following assessment manager conditions are attached to this development approval:

SCHEDULE A - GENERAL CONDITIONS

Monitoring and Measurements

- (A1) All determinations of the quality of contaminants released to the environment that are required by this development approval must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.

Calibration

- (A2) All instruments and devices used for the measurement or monitoring of any parameter under any condition of this development approval must be calibrated, and appropriately operated and maintained.

Site Based Management Plan

- (A3) A Site Based Management Plan must be prepared and implemented which must provide for at least the following functions:
 - (a) routine operating procedures to prevent or minimise environmental harm including procedures for:
 - (i) the removal of sludges from the approved place that minimise the risk of spillage of sludge or any other release of contaminants to the environment; and
 - (ii) treated effluent storage and irrigation.
 - (b) maintenance practices and procedures to ensure that all plant, equipment and reticulation systems used in the carrying out of the environmentally relevant activity are maintained in good working order; and

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- (c) contingency plans and emergency procedures to deal with foreseeable risks and hazards including inspection procedures and response plans for sewage pump stations in the event of failure of the power supply to any pump station; and
- (d) staff training and awareness of environmental issues to ensure that, at the minimum:
 - (i) any person responsible for carrying out the environmentally relevant activity is familiar with the conditions of this environmental authority as they relate to the person's responsibilities; and
 - (ii) any person responsible for the operation and maintenance of plant and equipment used in carrying out the environmentally relevant activity is competent to carry out their duties; and
- (e) a waste management plan (WMP) which addresses the following:
 - (i) the minimisation of infiltration and other stormwater inflows to sewage reticulation systems; and
 - (ii) proposed methods for storage, treatment, transport and reuse or disposal of sewage sludge; and
- (f) a stormwater management plan which has the objective of avoidance and minimisation of contaminated stormwater and provides for at least the following functions (where appropriate) :
 - (i) diversion of upstream runoff away from areas containing wastes or contaminants; and
 - (ii) minimisation of the size of contaminated areas; and
 - (iii) cleaning up of spilt contaminants without water; and
 - (iv) if soil is to be exposed or disturbed as a result of any works associated with the environmentally relevant activity (eg extension or servicing of the sewage reticulation system):
 - (1) minimisation of the amount of soil to be exposed or disturbed by staging works; and
 - (2) revegetation or stabilisation of exposed or disturbed areas; and
 - (3) installation of sediment control measures such as settling basins; and
 - (4) diversion of upstream runoff from exposed or disturbed areas.
- (g) monitoring of compliance with any of the requirements of:
 - (i) the conditions of this development approval; or
 - (ii) any plans or programs prepared under this development approval; and

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- (h) review and amendment or improvement of operating procedures and plans or programs where deficiencies are revealed by the monitoring program required in section (h) of this condition; and
- (i) on or before 1 August 2001, have completed and implemented the Site-Based Management Plan.

END OF CONDITIONS FOR SCHEDULE A

SCHEDULE B - AIR

Odour Generation

- (B1) In the event of a complaint being made about noxious or offensive odour generated on the approved place, measures must be taken, as soon as practicable after the complaint is received, to minimise the release of the odour beyond the boundaries of the approved place.

END OF CONDITIONS FOR SCHEDULE B

SCHEDULE C - WATER

- (C1) Contaminants that may cause environmental harm must not be directly or indirectly released from any source on the approved place to any waters at any location other than overflows from sewage or treated effluent pump stations in accordance with the requirements of this schedule or in accordance with Schedule D of this development approval.

Pump Stations

- (C2) The only overflow points permitted to release untreated sewage to any waters or land are those listed below:

OVERFLOW POINTS	LOCATION	DISCHARGE TO
From junction pit adjacent to old CED outfall	Next to boat ramp access road	Bloomfield River

Sewage and Effluent Pump Station Alarms and Standby Pump Systems

- (C3) Sewage and effluent pump stations whose failure would, or would be likely to, result in a direct or indirect release of contaminants to waters must be fitted with stand-by pumps and pump-failure alarms as well as high level alarms to warn of imminent pump station overflow. All alarms must be able to operate without mains power if such power failure occurs and, when in operation, must notify the appropriate person to respond to the alarm.

Sewage Pump Station Overflow Criteria

- (C4) All sewage and effluent pump stations must comply with the following design criteria:

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- (a) overflows must be screened to prevent the release of gross solids; and
- (b) overflows resulting from infiltration should not occur for less than five (5) times design ADWF.

END OF CONDITIONS FOR SCHEDULE C

SCHEDULE D - STORMWATER MANAGEMENT

Bunding

- (D1) All drum storages of chemical, waste oil and fuel on the approved place must be banded so that the capacity of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.
- (D2) Any stormwater captured within any bund required by this development approval must be free from contaminants or wastes prior to any release to the environment.

END OF CONDITIONS FOR SCHEDULE D

SCHEDULE E - LAND APPLICATION

Irrigation of Treated Sewage Effluent to Land

- (E1) Treated effluent from the sewage treatment plant may only be discharged to the defined treated sewage effluent irrigation areas marked as the hatched areas on the site plan shown in condition number (J1) of this development approval.

Identification of Pipelines and Fittings

- (E2) Pipelines and fittings for the land disposal of treated sewage effluent must be clearly identified. Standard water taps, hoses and cocks should not be fitted to effluent irrigation system pipelines, and lockable valves or removable handles should be fitted to the effluent irrigation pipelines where there is public access to the effluent irrigation release areas. The irrigation system must not be connected to other service pipelines.

Control of Release of treated effluent to Land

- (E3) The irrigation of treated sewage effluent to land under this development approval must be carried out in a manner so as to ensure that:
 - (a) vegetation is not damaged;
 - (b) soil erosion and soil structure damage is minimised;
 - (c) there is no surface ponding of effluent;
 - (d) the effluent is evenly distributed on the irrigation area;
 - (e) there is no spray drift or overspray outside any effluent irrigation area approved under this schedule;
 - (f) the infiltration of effluent beyond the plant root zone is minimised; and

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- (g) each portion of the irrigation area is irrigated at an application rate and frequency that optimises plant growth.
- (E4) The risk of exposure of the public to pathogens in treated sewage effluent must be minimised by such means as:
- (a) selection of irrigators with low exposure risk such as sub-surface irrigators; and/or
 - (b) appropriate timing of irrigation; and/or
 - (c) restriction of public access to areas either being spray irrigated or that are freshly spray irrigated.
- (E5) Notices warning the public not to use or drink the treated sewage effluent must be prominently displayed on:
- (a) any area irrigated with treated sewage effluent on the approved place; and
 - (b) all publicly accessible taps serving the effluent irrigation system
- These notices must be maintained in a visible and legible condition.

Quality of Treated Effluent Released to Land

- (E6) The release of treated sewage effluent to land must comply with the quality characteristics specified in Schedule E – Table 1.

Schedule E - Table 1

QUALITY CHARACTERISTICS	RELEASE LIMIT	LIMIT TYPE
5-day Biochemical Oxygen Demand (mg/l)	20	maximum
Suspended Solids (mg/l)	30	maximum
pH (pH Units)	6.5-8.5	range
Total Nitrogen (mg/l)	20	maximum
Total Phosphorus as P (mg/l)	10	maximum
Specific Conductance (µS/cm)	1000	maximum
Free Residual Chlorine (mg/l)	0.2 - 0.7	range
Faecal coliforms (organisms per 100 ml)	1000	median

Investigation and Design of Treated Sewage Effluent Irrigation Areas

- (E7) Any extension of the area used for irrigation of treated sewage effluent to land (other than for maintenance of any grounds and gardens around the sewage treatment plant generating the effluent) may only take place:
- (a) in accordance with the *Environmental Protection Act 1994*; and
 - (b) after an investigation has been carried out into:

- (i) the ecological sustainability of the irrigation or re-use proposal; and
- (ii) the suitability for irrigation with treated sewage effluent of the land to be used; and
- (iii) Best Practice Environmental Management (BPEM) to minimise any environmental harm resulting from the irrigation.

END OF CONDITIONS FOR SCHEDULE E

SCHEDULE F - NOISE

Emission of Noise

- (F1) In the event of a complaint about unreasonable noise generated on the approved place, that the administering authority considers to be neither frivolous or vexatious, then the holder of this environmental authority must take action to ensure that the noise is no longer an unreasonable noise.

END OF CONDITIONS FOR SCHEDULE F

SCHEDULE G - WASTE MANAGEMENT

Off Site Movement of Regulated Wastes

- (G1) Where regulated waste is removed from the approved place (other than by a release as permitted under another schedule of this development approval), records must be kept of the following:
- (a) the date, quantity and type of waste removed; and
 - (b) name of the waste transporter that removed the waste; and
 - (c) the intended treatment/disposal destination of the waste.

Note: Records of documents maintained in compliance with a waste tracking system established under the *Environmental Protection Act 1994* or any other law for regulated waste will be deemed to satisfy this condition.

Acceptance of Regulated Wastes

- (G2) Regulated waste may be accepted into the sewerage system serving the approved place when such wastes are commingled with normal domestic sewage or in accordance with a trade waste policy.
- (G3) Records of any trade waste agreements for discharge of wastes to sewers must be made available for inspection on request.

END OF CONDITIONS FOR SCHEDULE G

SCHEDULE H - MONITORING AND REPORTING

Complaint Recording

- (H1) All complaints received in relation to releases of treated effluent from operations at the approved place must be recorded and kept with the following details:
- (a) time, date and nature of complaint;
 - (b) type of communication (telephone, letter, personal etc.);
 - (c) name, contact address and contact telephone number of complainant
(Note: if the complainant does not wish to be identified then "Not identified" is to be recorded);
 - (d) response and investigation undertaken as a result of the complaint;
 - (e) name of person responsible for investigating complaint; and
 - (f) action taken as a result of the complaint investigation and signature of responsible person.

Monitoring of Treated Effluent Quality

- (H2) The holder of this development approval is responsible for the making of determinations and keeping of records of the quality of the treated effluent released to land for the quality characteristics specified in Schedule H - Table 1 and at a frequency of at least quarterly.

Schedule H - Table 1

QUALITY CHARACTERISTIC DETERMINATION
5-day Biochemical Oxygen Demand
Suspended Solids
pH
Specific Conductance
Total Nitrogen
Total Phosphorus as P
Free Residual Chlorine
Faecal Coliforms (Organisms/100 ml)

Sampling Point

- (H3) A sampling point must be provided for the treated sewage effluent at the outlet from the effluent storage tank to the effluent irrigation system. This sampling point must be maintained so as to be readily accessible to authorised officers at any reasonable time.

Sampling and Analysis of Waters

- (H4) All sampling and field testing (where recommended by the document referred to in this condition) of waters and preservation of samples of treated effluent released to waters or land must be made in accordance with methods prescribed in the Environmental Protection Agency Water Quality Sampling Manual, 3rd Edition, December 1999, or more recent editions or supplements to that document as such become available.

Monitoring and Recording Of Volume of Release

- (H5) The daily quantity of treated effluent released to the environment must be determined or estimated by an appropriate method, for example, a flow meter.
- (H6) Records must be kept of the results of all determinations of the daily quantity of treated effluent released to the environment.

Incident Recording

- (H7) A record must be maintained of events including but not limited to:
- (a) the time, date and duration of equipment malfunctions, that may affect the environmental performance of the approved place; and
 - (b) any shut-downs of equipment upon which the environmental performance of the approved place depends.

Notification of Emergencies and Incidents

- (H8) As soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this development approval, the administering authority must be notified of the release by telephone or facsimile.
- (H9) The notification of emergencies or incidents as required by condition number (H8) must include but not be limited to the following:
- (a) the holder of the development approval
 - (b) the location of the emergency or incident;
 - (c) the number of the development approval;
 - (d) the name and telephone number of the designated contact person;
 - (e) the time of the release;
 - (f) the time the holder of the development approval became aware of the release;
 - (g) the suspected cause of the release;
 - (h) the environmental harm caused, threatened, or suspected to be caused by the release; and
 - (i) actions taken to prevent further any release and mitigate any environmental harm caused by the release.

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- (H10) Not more than fourteen (14) days following the initial notification of an emergency or incident written advice must be provided of the information supplied in accordance with condition number (H9) in addition to:
- (a) proposed actions to prevent a recurrence of the emergency or incident; and
 - (b) outcomes of actions taken at the time to prevent or minimise environmental harm.
- (H11) As soon as practicable, but not more than six (6) weeks following the conduct of any environmental monitoring performed in relation to the emergency or incident, which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this development approval, written advice must be provided of the results of any such monitoring performed to the administering authority.

Exception Reporting

- (H12) The administering authority must be notified in writing of any monitoring result which indicates an exceedance of any development condition release limit within twenty-eight (28) days of completion of analysis.
- (H13) The written notification required by condition number (H12) above must include:
- (a) the full analysis results; and
 - (b) details of investigation or corrective actions taken; and
 - (c) results of any subsequent analysis carried out to verify the success of any corrective actions taken.

Recording of Monitoring

- (H14) Written record must be kept of the results of all monitoring programs required under this development approval. This record must:
- (a) record the results of all analyses, measurements and observations;
 - (b) record the date and time of sampling; and
 - (c) have all records of analyses, measurements and observations signed by a responsible officer.

Annual Monitoring Report

- (H15) A report must be submitted to the administering authority with the annual return which shall include but not be limited to:
- (a) a summary of the previous twelve (12) month's monitoring results obtained under any monitoring program(s) required under this development approval; and
 - (b) a summary of any record of quantities of discharge required to be kept under this development approval; and
 - (c) for the sewage treatment plant:
 - (i) the number of domestic tenements newly connected to the sewage treatment works during the previous twelve (12) months; and
 - (ii) the progressive total number of connections; and

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- (iii) a summary of any trade waste agreements entered into or amended during the year, including the nature of the industry.

Irrigation Area Groundwater and Soil Monitoring

- (H16) The holder of this environmental authority must install and maintain a monitoring bore(s) for the purpose of sampling groundwater from any aquifer likely to be affected by the irrigation of treated effluent to the effluent irrigation areas shown in condition number (J1).
- (H17) The holder of this environmental authority is responsible for ensuring groundwater monitoring is performed in accordance with the following requirements:
- (a) standing water levels in metres must be measured and recorded on each occasion that samples are obtained. Such measurement must be undertaken prior to any disturbance by sampling.
 - (b) a sample of groundwater must be taken from the bore on at least quarterly; and
 - (c) the sample obtained in accordance with condition number (H17)(b) must be analysed for faecal coliforms and total nitrogen (TN).
- (H18) The soil condition of the effluent irrigation area must be monitored by measurement of the following soil physical and chemical properties at a minimum frequency of five (5) years with the first samples being taken one (1) month after plant commissioning:
- (a) pH, and
 - (b) electrical conductivity (in $\mu\text{S}/\text{cm}$); and
 - (c) chloride (as % Na Cl); and
 - (d) total sodium, magnesium and calcium and calculation of the SAR (sodium adsorption ratio)
 - (e) available potassium (in mg/kg); and
 - (f) phosphorus sorption capacity; and
 - (g) available phosphorus (in mg/kg); and
 - (h) total nitrogen(in % or mg/kg); and
 - (i) organic carbon (in %);
- and the following field tests;
- (j) infiltration rate; and
 - (k) subsoil hydraulic conductivity; and
 - (l) soil texture, structure, colour, moisture; and
 - (m) available water capacity.

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- (H19) Sampling of soil for analysis should be carried out in accordance with the following requirements:
- (a) soil sampling sites should be chosen to enable them to be used as permanent reference points for long term soil monitoring; and
 - (b) soil sampling must be from areas which are representative of any different soil types, irrigation practices, type of vegetation irrigated and cropping or pasture practices on the irrigated areas; and
 - (c) soil samples may be composited for each soil profile depth to produce at least one composite sample for each representative sampling area; and
 - (d) at each soil sampling location samples must be taken at soil profile depths of 100mm, 300mm and 600 mm with the samples being collected from within 50mm either side of the specified depths

END OF CONDITIONS FOR SCHEDULE H

SCHEDULE I - DEFINITIONS

For the purposes of this development approval the following definitions apply:

- (I1) "administering authority" means the Environmental Protection Agency or its successor.
- (I2) "total nitrogen" means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen.
- (I3) "total Phosphorus" means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus.
- (I4) "mg/l" means milligrams per litre.
- (I5) "median" means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.
- (I6) "maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.
- (I7) "minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.
- (I8) "range" means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated.
- (I9) "approved place" means the Wujal Wujal Community Sewage Treatment Plant on Lot 4, Plan SR836 & Lot 10, RP903517, Parish of Clerk, County of Solander, located at Wujal Wujal Community, via Cooktown, Queensland 4871 and includes any pump stations, reticulation systems and other ancillary works associated with the plant.
- (I10) "cfu" means colony forming units.

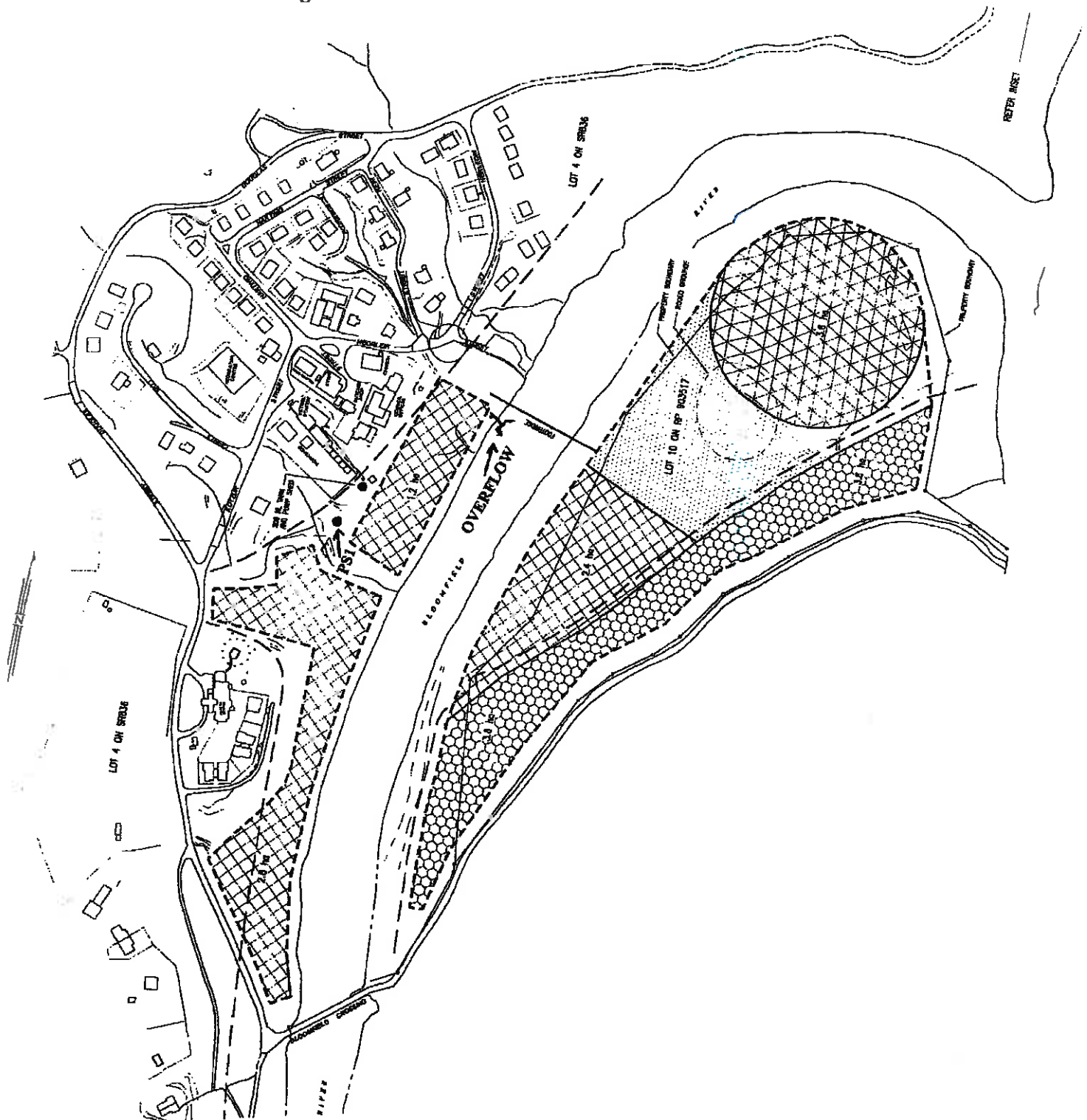
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- (I11) "noxious" means harmful or injurious to health or physical well-being.
- (I12) "offensive" means causing unreasonable offence; is unreasonably disagreeable to the sense; is disgusting, nauseous or repulsive.
- (I13) "ADWF" means average dry weather flow.
- (I14) "quarterly" means in the first week of each of March, June, September and December.
- (I15) "holder of this development approval" means Wujal Wujal Aboriginal Council.

END OF CONDITIONS FOR SCHEDULE I

SCHEDULE J - SITE PLAN

**(J1) Location of Approved Place, Pump Stations and Treated Sewage Effluent
Irrigation Area**



END OF CONDITIONS FOR SCHEDULE J

5. Reasons for Refusal

In accordance with the *Integrated Planning Act 1997* section 3.5.15, this decision notice must include reasons for a refusal. If applicable, reasons for refusing this application are listed below:

- (a) Not Refused

6. Further Development Permits Required

Other development permits required to undertake the ERA(s) referred to in the development application include FN0030DA issued by Cook Shire Council for the construction and operation of a sewage treatment plant on the Luddens property at Wujal Wujal.

7. Additional Comments or Advice

- (a) The proposed works on Lot 10, RP903517, Parish of Clerk, County of Solander, in Douglas Shire, are not assessable development under the local government planning scheme as long as they are limited to storage and irrigation of effluent on pasture, trees or other vegetation.

8. Referral Agencies

Concurrence Agencies:

- (a) None

Advice Agencies:

- (a) None

9. Assessment Manager

Environmental Protection Agency
Cairns District, Northern Region
PO Box 2066
CAIRNS MAIL CENTRE QLD 4870
Phone: (07) 4046 6602
Fax: (07) 4046 6606

10. Additional Information for Applicants

This approval under the *Environmental Protection Act 1994* does not remove the need to obtain any further approval for this development which might be required by other State and/or Commonwealth legislation. Applicants are advised to check with all relevant statutory authorities. Applicants also should comply with all relevant legislation.

Other Environmental Protection Agency approvals, licences and/or sanctions (for example, *Harbours Act 1955*, *Beach Protection Act 1968*, *Marine Parks Act 1982*, *Queensland Heritage Act 1992*, *Nature Conservation Act 1992*) that are required by this development or works are listed below. This response does not infer that the other necessary approvals, licences and/or sanctions will be granted.

- (a) Approvals under the Harbours Act 1955 may be required for any pipework or headworks in tidal waters.

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11. Part 4A Environmental Authority for Level 1 ERA(s) with Development Approvals

Under the *Environmental Protection Act 1994*, a Part 4A environmental authority from Environmental Protection Agency will be required:

☒ Yes ☐ No

12. Appeal

When issuing a decision notice under the *Integrated Planning Act 1997*, the assessment manager must state the rights of appeal for the applicant (s3.5.15(2)(j)). Extract from the *Integrated Planning Act 1997* is attached.

signed



Nicole Buchanski
District Manager
Cairns District, Northern Region
Delegate of Administering Authority
Environmental Protection Act 1994

date

22 December 2000